

FORM PTO-1449		ATTY. DOCKET NO. 1448.0120002		APPLICATION NO. 08/349,318			
INFORMATION DISCLOSURE STATEMENT		APPLICANTS ADAMS et al.		GROUP (To Be Assigned) 1201			
		FILING DATE October 27, 1995					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,261,868	04/16/81	Hora et al.	252	529	08/08/79
	AB1	4,369,183	01/18/83	Jones et al.	424	263	02/02/81
	AC1	4,490,082	02/12/85	Shenvi et al.	514	2	12/05/83
	AD1	4,510,130	04/09/85	Platt et al.	514	2	05/20/83
	AE1	4,537,707	08/27/85	Severson, Jr.	252	545	05/14/84
	AF1	4,537,773	08/27/85	Shenvi, A.B.	514	63	12/05/83
	AG1	4,842,769	06/27/89	Shulman et al.	252	8.6	09/02/87
	AH1	4,963,655	10/16/90	Kinder et al.	530	331	05/27/88
	AI1	4,997,929	03/05/91	Collins et al.	536	27	09/08/89
	AJ1	5,030,378	07/09/91	Venegas, M.G.	252	174.12	08/06/90
	AK1	5,106,948	04/21/92	Kinder et al.	530	331	08/28/90
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 145 641	06/19/85	Europe			Yes No
	AM1	EP 0 293 881	12/07/88	Europe			Yes No
	AN1	WO 88/10266	12/29/88	PCT			Yes No
	AO1	EP 0 315 574	05/10/89	Europe			Yes X No
	AP1	EO 0 354 522	02/14/90	Europe			Yes X No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	1	Aoyagi, T., and Umezawa, H., "Structures and Activities of Protease Inhibitors of Microbial Origin," <i>In: Proteases and Biological Control</i> , vol. 2, Reich, E., et al., eds., Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp. 429-454 (1975).				
	AS	1	Bachovin, W.U., et al., "Nitrogen-15 NMR Spectroscopy of the Catalytic-Triad Histidine of a Serine Protease in peptide Boronic Acid Inhibitor Complexes," <i>Biochemistry</i> 27:7689-7697 (1988).				
	AT	1	Berry, S.C., et al., "Interaction of Peptide Boronic Acids With Elastases: Circular Dichroism Studies," <i>Proteins: Structure, Function, and Genetics</i> 4:205-210 (1988).				
EXAMINER		Ramsuer			DATE CONSIDERED 1-20-98		
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	5,169,841	12/08/92	Kleeman et al.	514	63	11/03/88
	AB2	5,187,157	02/16/93	Kettner et al.	514	18	04/06/88
	AC2	5,242,904	09/07/93	Kettner et al.	514	18	03/09/92
	AD2	5,250,720	10/05/93	Kettner et al.	558	288	03/09/92
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	DB 38 27 340	02/15/90	Germany			Yes X No
	AM2	EP 0 363 284	04/11/90	Europe			Yes No
	AN2	EP 0 364 344	04/18/90	Europe			Yes No
	AO2	EP 0 381 262	08/08/90	Europe			Yes No
	AP2	EP 0 393 457	10/24/90	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	2	Castro, B., et al., "Peptide Coupling Reagents VI. A Novel, Cheaper Preparation of Benzotriazolylxytris(dimethylamino)phosphonium Hexafluorophosphate (BOP Reagent)," <i>Synthesis</i> 11:751-752 (1976).	
AS	2	Dick, L.R., et al., "Degradation of Oxidized Insulin B Chain by the Multiprotease Complex Macropain (Proteasome)," <i>Biochemistry</i> 30:2725-2734 (1991).	
AT	2	Goldberg, A.L., "The Mechanism and Functions of ATP-Dependent Proteases in Bacterial and Animal Cells," <i>Eur. J. Biochem.</i> 203:9-23 (1992).	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 91/13004	09/19/91	PCT			Yes No
	AK3	EP 0 471 651	02/19/92	Europe			Yes No
	AK3	EP 0 478 050	04/01/92	Europe			Yes No
	AO3	WO 92/07869	05/04/92	PCT			Yes No
	AP3	WO 92/11850	07/23/92	PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	3	Goldberg, A.L., and Rock, K.L., "Proteolysis, Proteasomes and Antigen Presentation," <i>Nature</i> 357:375-379 (1992).
	AS	3	Herzhko, A., and Ciechanover, A., "The Ubiquitin System for Protein Degradation," <i>Annu. Rev. Biochem.</i> 61:761-807 (1992).
	AT	3	Kettner, C.A., and Shenoi, A.B., "Inhibition of the Serine Proteases Leukocyte Elastase, Pancreatic Elastase, Cathepsin G, and Chymotrypsin by Peptide Boronic Acids," <i>J. Biol. Chem.</i> 259(24):15106-15114 (1984).

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				FILING DATE October 27, 1993		GROUP (If Assigned) 1201	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 92/12140	07/23/92	PCT			Yes No
	AM4	EP 0 511 456	11/04/92	Europe			Yes No
	AN4	WO 92/19707	11/12/92	PCT			Yes No
	AO4	WO 92/19709	11/12/92	PCT			Yes No
	AP4	WO 93/21213	10/28/93	PCT			Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	4	Kettner, C.A., et al., "Kinetic Properties of the Binding of α -Lytic Protease to Peptide Boronic Acids," <i>Biochemistry</i> 27:7682-7688 (1988).				
	AS	4	Kinder, D.H., and Katzenellenbogen, J.A., "Acylamino Boronic Acids and Difluoroborane Analogues of Amino Acids: Potent Inhibitors of Chymotrypsin and Elastase," <i>J. Med. Chem.</i> 28:1917-1925 (1985).				
	AT	4	Kinder, D.H., et al., "Antimetastatic Activity of Boro-Amino Acid Analog Protease Inhibitors against B16BL6 Melanoma in vivo," <i>Invasion Metastasis</i> 12:309-319 (1992).				
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				APPLICANTS ADAMS et al.		FILING DATE October 27, 1995	
				GROUP 470-80-Asystead		1201	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
		WO 93/21246	10/28/93	PCT			Yes
	AL5						No
		EP 0 583 536	02/03/94	Europe			Yes
	AMS						No
		WO 94/21668	08/29/94	PCT			Yes
	AMS						No
		WO 94/21668	10/13/94	PCT			X Yes
	AMS						No
		95/09858	04/13/95	PCT			Yes
	AP5						No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	2	Li, X., et al., "Isolation and Characterization of a Novel Endogenous Inhibitor of the Proteasome," <i>Biochemistry</i> 30:9709-9715 (1991).				
	AS	2	Lim, M.S.L., et al., "The Solution Conformation of (D)Phe-Pro-Containing Peptides: Implications on the Activity of Ac-(D)Phe-Pro-boroArg-OMe, a Potent Thrombin Inhibitor," <i>J. Med. Chem.</i> 36(13):1831-1838 (June 25, 1993).				
	AT	2	Matteson, D.S., et al., "(R)-1-Acetamido-2-phenylethaneboronic Acid. A Specific Transition-State Analogue for Chymotrypsin," <i>J. Am. Chem. Soc.</i> 103:5241-5242 (1981).				
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only two references in S.N. 08/412,581

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	6	Murakami, K., and Etlinger, J.D., "Endogenous Inhibitor of Nonlysosomal High Molecular Weight Protease and Calcium-Dependent Protease," <i>Proc. Natl. Acad. Sci. USA</i> 83:7588-7592 (1986).
	AS	6	Rechsteiner, M., "Ubiquitin-Mediated Pathways for Intracellular Proteolysis," <i>Ann. Rev. Cell Biol.</i> 3:1-30 (1987).
	AT	6	Rivett, A.J., "The Multicatalytic Proteinase. Multiple Proteolytic Activities," <i>J. Biol. Chem.</i> 264(21):12215-12219 (1989).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	Z	Rivett, A.J., "The Multicatalytic Proteinase of Mammalian Cells," Arch. Biochem. Biophys. 268(1):1-8 (1989).				
	AS	Z	Rock, K.L., et al., "Inhibitors of the Proteasome Block the Degradation of Most Cell Proteins and the Generation of Peptides Presented on MHC Class I Molecules," Cell 78:761-771 (September 9, 1994).				
	AT	Z	Sheehan, J.C., et al., "A Rapid Synthesis of Oligopeptide Derivatives Without Isolation of Intermediates," J. Am. Chem. Soc. 87(12):2492-2493 (1965).				
EXAMINER Ramsayer				DATE CONSIDERED 1-20-90			
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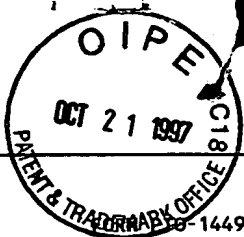
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	B	Takahashi, L.H., et al., "Crystallographic Analysis of the Inhibition of Porcine Pancreatic Elastase by a Peptidyl Boronic Acid: Structure of a Reaction Intermediate," <i>Biochemistry</i> 28:7610-7617 (1989).
	AS	B	Tanaka, K., et al., "Proteasome: Protein and Gene Structures," <i>New Biol.</i> 4(3):173-187 (1992).
	AT	B	Tsai, D.J.S., et al., "Diastereoselection in Reactions of Pinanediol Dichloromethaneboronate," <i>Organometallics</i> 2:1543-1545 (1983).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	2	Tslikounas, E., et al., "Identification of Serine and Histidine Adducts in Complexes of Trypsin and Trypsinogen with peptide and Nonpeptide Boronic Acid Inhibitors by ¹ H NMR Spectroscopy," <i>Biochemistry</i> 31:12839-12846 (1992).				
	AS	2	Veale, C.A., et al., "Nonpeptide Inhibitors of Human Leukocyte Elastase. 5. Design, Synthesis, and X-ray Crystallography of a Series of Orally Active 5-Aminopyrimidin-6-one-Containing Trifluoromethyl Ketones," <i>J. Med. Chem.</i> 38(1):98-108 (January 6, 1995).				
	AT	2					
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
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<i>[Signature]</i>	AE2	5,550,262	08/27/96	Iqbal et al.	554	57	
<i>[Signature]</i>	AF2	5,614,649	03/25/97	Iqbal et al.	554	56	
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	AL1						Yes No
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	AP1						Yes No

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